

## 01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, NJ

LOCATION.--Lat 40°55'02", long 74°39'56", Morris County, Hydrologic Unit 02040105, on left bank just upstream of highway bridge on Lakeside Boulevard (County Route 607), 300 ft downstream from Lake Hopatcong Dam in Landing.

DRAINAGE AREA.--25.3 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1928 to September 1975, April 2002 to current year. Operated as crest-stage gage, water years 1976 to 1995.

REVISED RECORDS.-- WSP 781: 1928(M). WSP 1051: 1944-1945. NJ-82-2: Drainage area. WRD-NJ-04-1: 2000(M).

GAGE.--Water-stage and rain recorder and concrete control. Prior to August 24, 1967, concrete control at site 40 ft downstream. Datum of gage is 904.99 ft above NGVD of 1929 (New Jersey Geological Survey bench mark).

REMARKS.--Records good, except discharges below 5.0 ft<sup>3</sup>/s which are fair and estimated daily discharges which are poor. Flow regulated by Lake Hopatcong (see Delaware River basin, reservoirs in). Several measurements of water temperature were made during the year. Satellite rain and gage-height telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	65	116	66	e90	75	38	42	20	14	12	12
2	118	81	143	e66	e65	75	38	37	18	14	12	12
3	106	81	154	e66	e40	e75	87	37	17	15	12	12
4	93	81	153	67	41	74	153	36	20	14	12	12
5	84	81	153	67	38	52	173	33	20	14	12	12
6	74	81	152	67	33	41	169	32	18	14	12	12
7	69	80	153	67	31	41	159	29	22	15	11	12
8	64	80	153	98	31	41	168	25	21	15	12	12
9	59	79	152	112	31	41	155	22	18	15	12	12
10	56	79	175	112	31	41	137	19	17	15	11	12
11	52	79	185	112	31	41	124	18	17	15	11	12
12	49	99	186	111	31	41	108	19	18	15	11	12
13	49	110	195	111	31	41	98	15	16	14	11	12
14	48	108	207	112	31	41	70	15	16	14	11	12
15	48	110	206	112	32	41	57	21	16	14	11	12
16	41	109	152	112	61	41	51	21	15	14	11	12
17	29	108	76	112	75	41	47	19	14	14	11	12
18	28	107	52	e112	74	38	45	17	15	15	11	12
19	31	105	52	e112	75	36	42	15	15	14	11	12
20	30	105	52	e112	75	36	38	15	15	15	11	12
21	29	105	52	e112	75	36	40	14	17	14	11	12
22	29	104	31	e112	75	36	34	13	16	14	14	12
23	29	104	22	e112	75	36	35	13	14	14	18	12
24	28	104	22	e112	74	36	39	15	14	13	18	11
25	27	104	22	e112	75	36	35	16	14	12	14	12
26	38	103	41	e112	75	36	33	13	14	12	11	12
27	43	84	51	e111	75	36	39	11	14	12	12	13
28	42	83	50	e111	75	36	38	12	14	12	12	13
29	42	109	62	e111	---	38	34	24	14	12	12	12
30	41	116	67	e100	---	38	36	25	14	12	12	12
31	40	---	67	e90	---	38	---	22	---	12	12	---
TOTAL	1,649	2,844	3,354	3,101	1,546	1,355	2,320	665	493	428	374	361
MEAN	53.2	94.8	108	100	55.2	43.7	77.3	21.5	16.4	13.8	12.1	12.0
MAX	133	116	207	112	90	75	173	42	22	15	18	13
MIN	27	65	22	66	31	36	33	11	14	12	11	11

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

MEAN	55.7	58.0	64.2	53.8	46.2	33.6	46.5	43.5	35.2	26.3	27.3	45.2
MAX	227	164	168	129	134	173	133	124	167	133	146	175
(WY)	(1935)	(2004)	(1951)	(1974)	(1958)	(1936)	(1958)	(1947)	(1972)	(1975)	(1955)	(1948)
MIN	2.77	7.83	10.5	9.96	3.04	0.05	0.72	1.43	1.87	1.76	4.08	5.46
(WY)	(1967)	(1965)	(1966)	(1949)	(1966)	(1961)	(1960)	(1960)	(1960)	(1960)	(1954)	(2002)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	14,010.6		18,490		44.5	
ANNUAL MEAN	38.3		50.7		71.9	
HIGHEST ANNUAL MEAN					8.02	1973
LOWEST ANNUAL MEAN					731	Aug 20, 1955
HIGHEST DAILY MEAN	207	Dec 14	207	Dec 14	0.00	Many days
LOWEST DAILY MEAN	5.4	Apr 13	11	Many days	0.00	Many days
ANNUAL SEVEN-DAY MINIMUM	8.0	Apr 8	11	Aug 10	0.00	Many days
MAXIMUM PEAK FLOW			210	Dec 13	1,900a	Aug 13, 2000
MAXIMUM PEAK STAGE			3.48	Dec 13	10.90b	Aug 13, 2000
INSTANTANEOUS LOW FLOW			5.8	Jun 22	0.00	Many days
10 PERCENT EXCEEDS	104		112		105	
50 PERCENT EXCEEDS	21		36		29	
90 PERCENT EXCEEDS	9.4		12		8.7	

- a From rating curve extended above 340 ft<sup>3</sup>/s on basis of computation of peak flow over dam. Level of Lake Hopatcong highest since dam built in 1828.
- b From high-water mark in gage house
- c Estimated.

